

F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

LOW VOLUME AIR SAMPLER F&J MODEL LV-14MHTE

NOTABLE FEATURES:

- Constant air flow regulator
- Durable 1/4 HP oil-less carbon vane pump designed for continuous use
- Instrument control box conveniently located
- ➢ Internal intake and exhaust mufflers
- Adjustable sampling gooseneck 4' 7' (122 213 cm)
- Rotometer, elapsed time meter and vacuum gauge
- ➤ Heavy-duty hand truck with 11" pneumatic tires
- ➤ 200 240VAC, 50/60Hz; single phase



GENERAL DESCRIPTION:

Model LV-14MHTE is a heavy-duty hand truck mounted low volume air sampler with an adjustable, aluminum sampling gooseneck. The adjustable gooseneck permits sampling at heights varying from 4' to 7' (122 cm - 213 cm) above floor level.

The LV-14MHTE air sampler includes a 1/4 HP oil-less, carbon vane vacuum pump with a constant airflow regulator for use where a nearly constant airflow is desirable.

The regulator holds a constant pressure drop across an in-line orifice by varying the flow through a bypass valve into the pump. This system allows the pump to work at a minimum head drop at all times by permitting it to run cooler; thus extending its lifetime. The oil-less pump requires no lubrication to maintain optimal efficiency during its service life. The pump is mounted on a mobile cart with two rubber wheels to permit mobile transportation of the unit.

The typical operating flow range is 1 to 3.5 CFM (10 - 100 LPM).

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LV-14MHTE Low Volume Air Sampler (200 – 240 VAC)

SPECIFICATIONS:

- **PUMP TYPE:** Oil-less, carbon vane 1/4 HP; 50/60Hz, 1 PH
- MAXIMUM CAPACITY: 4 CFM (113 LPM) at 0" Hg Pressure drop
- ULTIMATE VACUUM: 25" (635 mm) Hg at sea level
- **VACUUM GAUGE:** 0" 30" (0 762mm) Hg
- **POWER REQUIREMENTS:** 200 240VAC;

50/60 Hz at 5 amperes; single phase

- **ELECTRICAL CORD:** All temperature, 3-wire, 16 gauge
- **THERMAL OVERLOAD PROTECTION:** Furnished as an integral part of the motor.
- CONSTANT AIRFLOW REGULATOR: Aluminum construction with silicone diaphragm; adjustable from 1 to 3 CFM (10-100 LPM)
- **DIMENSIONS:** 21" ×14"W×84"H (50.8 × 26× 213cm)
- **WEIGHT:** 67 lbs. (30.4 Kgs.)
- WHEELS: 11", pneumatic
- **SAMPLING HEIGHT:** 4' to 7' (122 213cm) **AVAILABLE ROTOMETERS SCALES:**

MODEL	RANGE	
R10100	10 –	100 LPM
R13	1 -3.5	5 CFM

ELAPSED TIME INDICATOR:

Resettable Type: 9999.9 minutes or hours. **COMBINATION FILTER HOLDER:** Durable plastic combination filter holders for F&J Model B, C or M charcoal cartridges and 47 mm, 2" or 50 mm diameter particulate filter paper are available. All models have quick-disconnect function.

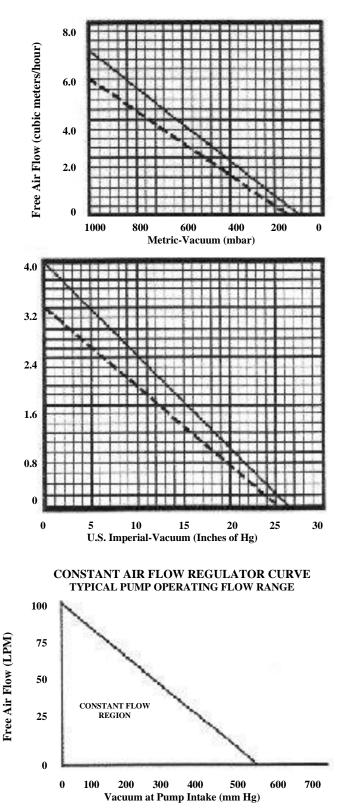
STANDARD COMBINATION FILTER HOLDERS AVAILABLE:

FILTER	CHARCOAL	PARTICULATE
HOLDER	CARTRIDGE	PAPER
MODEL	DIMENSIONS	DIAMETER
FJ-05P	F&J Model B	2" or 50 mm
FJ-21P	F&J Model C	2" or 50 mm
FJ-35P	F&J Model B	47 mm
FJ-46P	F&J Model C	47 mm
FJ-51P	F&J Model M	2" or 50 mm
FJ-53P	F&J Model M	47 mm

PUMP CURVE

Top line on curve is for 60-cycle performance Bottom line on curve is for 50-cycle performance

> 1425 RPM @ 50 Hz 1725 RPM @ 60 Hz



Free Air Flow (CFM)